

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office ASSISTANT SECRETARY AND COMMISSIONER

OF PATENTS AND TRADEMARKS Washington, D.C. 20231

SEPTEMBER 11, 1997

PTAS

FOLEY, HOAG & ELIOT LLP MATTHEW P. VINCENT, PH.D. ONE POST OFFICE SQUARE BOSTON, MA 02109



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/15/1997

REEL/FRAME: 8654/0670

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CRABTREE, GERALD

DOC DATE: 07/22/1997

ASSIGNEE:

LELAND STANFORD JUNIOR UNIVERSITY, BOARD OF TRUSTEES OF STANFORD UNIVERSITY STANFORD, CALIFORNIA 94305

SERIAL NUMBER: 08388653

PATENT NUMBER:

FILING DATE: 02/14/1995

ISSUE DATE:

MAYA BENNETT, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS RECEIVED

SEP 1 7 1997

F.H. & E. LLP PATENT DEPT.

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	Tab settings V 100518  To the Honorable Commissionar or Farents and Trademark	けい rks: Pi	ت lease record th	he attacl	hed original	docum	ents or c	ony the	marie C.	
	Name of conveying party(ies):	1	Name and						AUS 1	ñ 10
	Gerald Crabtree	Name: Board of Trustees of Leland Stanford EIPT AC Junior University  Street Address: Stanford University							7	
	Additional name(s) of conveying party(les) attached? ☐ Yes  ⊠ No									
	3. Nature of conveyance  ☑ Assignment ☐ Merger	City	r: <u>Stanfo</u>	<u>rd</u>	State: <u>C</u>	aliforr	<u>iia</u>	ZIP:	<u>9430 </u>	
	☐ Security Agreement ☐ Change of Name								7.8 7.8 7.8	
	Other	l							7/	上를
	Execution Date:	Addi	tional name(s)	& addr	ess(es) atta	ached?	□ Yes	⊠ No	J	
	4. Application number(s) or patent number(s):  A. Patent Application No.(s)  08/388,653	B. Patent No.(s)								
	Additional numbers			No		1 4 -			4-	ł
	<ol><li>Name and address of party to whom correspondence concerning document should be mailed:</li></ol>	a-	6. Total i	numbe ved: 1	er of appi	licatio	ns and	paten	ıs	
	Name: Matthew P. Vincent, Ph.D.		7. Total 1	fee (37	7 CFR 3.	41)	\$4	0.00		
	Telephone: (617) 832-1000		_ ⊠ En							
	Internal Address: Foley, Hoag & Eliot LLP		Auti	<u>horize</u>	d to be c	harge	<u>d to de</u>	posit a	account	
İ	Street Address: One Post Office Square		8. Depos	sit acc	ount num	nber: (	06-144	8		
	City: Boston State: MA ZIP: 02109		Attach duplic	cate cop	y of this pa	ige if pa	ying by d	leposit a	ccount	
	DO NOT USE THIS SPACE									
	9. Statement and signature: To the best of my know and any attached copy is a true copy of the priging of Matthew P. Vincent, Ph.D.	wledg Jodun	e and belief, neut	, the fo	regoing ir	nforma	tion is t	rue en	d correct	
İ	11 (5)	gnatu	re			<b>_</b>		Date		

Mail documents t be recorded with required cover sheet information to:
C mmissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

Total number of pages including cover sheet, attachments, and document:

#### ASSIGNMENT

I. Gerald L. Crabtree of Woodside, California, in consideration of one dollar and other valuable consideration paid to me by the Board of Trustees of the Leland Stanford Junior University, a corporation of the state of California, having its principal place of business at Stanford University, Stanford, California 94305, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# Board of Trustees of the Leland Stanford Junior University

Its successors and assigns, the entire interest for the United States of America and all foreign countries, including all rights of priority under the international convention for the protection of industrial property in a certain invention or improvement in

# Regulated Transcription of Targeted Genes and Other Biological Events

Described in patent application serial no. 08/388,653 filed on 14 February 1995 in the United States Patent and Trademark Office, and in all letters patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue or other applications based in whole or in part thereon. And I agree, for myself and my executors and administrators, with said corporation and its successors and assigns but at its or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure the grant of letters patent in the united states and in all other countries to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness my hand this 22 " day of

133

Gerald Crabtree

Then personally appeared the above named Gerald Crabtree and acknowledged the foregoing instrument to be his free act and deed, before me, this 22 day of \_\_\_\_\_\_\_, 1997.

Witness signature

SAKA AVV JAUSE Witness name (please print)





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APV-31605

SEPTEMBER 11, 1997

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FOLEY, HOAG & ELIOT LLP MATTHEW P. VINCENT, PH.D ONE POST OFFICE SQUARE BOSTON, MA 02109



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RECORDATION DATE: 08/15/1997

REEL/FRAME: 8654/0656 NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:** 

WANDLESS, THOMAS J.

DOC DATE: 07/16/1997

ASSIGNOR:

SPENCER, DAVID M.

DOC DATE: 07/17/1997

**ASSIGNOR:** 

SCHREIBER, STUART L.

DOC DATE: 07/22/1997

ASSIGNOR:

BELSHAW, PETER

DOC DATE: 07/17/1997

ASSIGNEE:

PRESIDENT AND FELLOWS OF HARVARD COLLEGE

17 QUINCY STREET

CAMBRIDGE, MASSACHUSETTS 02138

SERIAL NUMBER: 08388653

PATENT NUMBER:

FILING DATE: 02/14/1995

ISSUE DATE:

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F.H. & E. LLP

8654/0656 PAGE 2

MAURICE CARTER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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08-27-1	1997
FORM PTO-1595 (Roy, 6-93)	R SHEET U.S DEPARTREATO AND COMMERCE
OMB No. 0651-0011 (ωφ. 4/94)	Patent and Trademark Office
Tab settings V 100519	O C C V V V
To the Honorable Commissioner of Patents and Tradema	ns: Please record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
(a) Thomas J. Wandless	
(b) David M. Spencer	Name: President and Fellows of Harvard College
(c) Stuart L. Schreiber	
(d) Peter Belshaw	Internal Address:
	Street Address: 17 Quincy Street
Additional name(s) of conveying party(ies) attached?  ☐ Yes ☒ No	Career Address. 17 Quintey Offices
3. Nature of conveyance	City: _Cambridge_
☑ Assignment ☐ Merger	Oily. <u>Validations</u>
☐ Security Agreement ☐ Change of Name	State: Massachusetts ZIP: 02138
Other	Course Massacritiserits 211: 55 Tes
Outer	ř <b>‡</b>
Execution Date: _ <sup>(a)</sup> <u>July 16, 1997;</u> <sup>(b) &amp; (d)</sup> <u>July 17,</u>	Additional name(s) & address(es) attached? ☐ Yes ☑ No
4. Application number(s) or patent number(s):	
A. Patent Application No.(s)	B. Patent No.(s)
08/388,653	
-	
Additional numbers	attached?  Yes No
5. Name and address of party to whom correspond	d- 6. Total number of applications and patents
ence concerning document should be mailed:	involved: 1
Name: Matthew P. Vincent, Ph.D.	7. Total fee (37 CFR 3.41)\$40.00
	1
Telephone: (617) 832-1000	☑ Enclosed
Internal Address: Foley, Hoaq & Eliot LLP	☐ Authorized to be charged to deposit account
Street Address: One Post Office Square	8. Deposit account number: 06-1448
City: Boston State: MA ZIP: 02109	Attach duplicate copy of this page if paying by deposit account
, po not i	USE THIS SPACE
9. Statement and signature: To the best of my know	wiedge and belief, the foregoing information is true and correct
and any attached copy is a true copy of the original d	lodument.
Matthew P. Vincent, Ph.D.	814 <i>19</i> 7 L
Name of Person Signing Signature	Date
- J	over sheet, attachments, and document:
1	

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Tradomarks, Box Assignments

Washington, D.C. 20231

# ASSIGNMENT

I, Thomas J. Wandless of Palo Alto California, in consideration of one dollar and other valuable consideration paid to me by the President and Fellows of Harvard College, a corporation of the state of Massachusetts, having its principal place of business at 17 Quincy Street, Cambridge, MA 02138, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

#### President and Fellows of Harvard College

Its successors and assigns, the entire interest for the United States of America and all foreign countries, including all rights of priority under the international convention for the protection of industrial property in a certain invention or improvement in

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness my hand this 16th day of \_\_\_\_\_\_\_, 1997. By: J. D. M.

Then personally appeared the above named Thomas J. Wandless and acknowledged the foregoing instrument to be his free act and deed, before me, this 16th day of July 1997.

Susan Learned - Driscoll
Witness signature

Susan Learned - Driscoll
Witness name (please print)



#### ASSIGNMENT

I, Stuart L. Schreiber of Cambridge, Massachusetts, in consideration of one dollar and other valuable consideration paid to me by the President and Fellows of Harvard College, a corporation of the state of Massachusetts, having its principal place of business at 17 Quincy Street, Cambridge, MA 02138, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# President and Fellows of Harvard College

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness my hand this	22	_day of _	July		997.		
			By: _	SH (	$\triangleright$		
			Ду	Stuart L.	Schreiber		
Then personally appearing to be his from	ired the	above nar	efore me, the	his $ZZ$	lay of Ju	ue	, 1997.
			)	Saca S Witness si	Seur Signature	flour	
				SHLA	ANN SA	LBEKT	•

Witness name (please print)

#### ASSIGNMENT

I, David M. Spencer f Houston, Texas, in consideration of one dollar and other valuable consideration paid to me by the President and Fellows of Harvard College, a corporation of the state of Massachusetts, having its principal place of business at 17 Quincy Street, Cambridge, MA 02138, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# President and Fellows of Harvard College

Its successors and assigns, the entire interest for the United States of America and all foreign countries, including all rights of priority under the international convention for the protection of industrial property in a certain invention or improvement in

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness my hand this 17 day of V	ULY 1997.
	By: 800
	David Spencer
Then personally appeared the above name instrument to be his free act and deed, before	ed David Spencer and acknowledged the foregoing terms, this 12 day of 1997.  Witness signature
	SACHIKO TAKASE Witness name (please print)



I, Peter Belshaw of Somerville, Massachusetts, in consideration of one dollar and other valuable consideration paid to me by the President and Fellows of Harvard College, a corporation of the state of Massachusetts, having its principal place of business at 17 Quincy Street, Cambridge, MA 02138, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# President and Fellows of Harvard College

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness my hand this day of	July	, 1997.
	// // By: _	Dan
		Peter Belshaw

Then personally appeared the above named Peter Belshaw and acknowledged the foregoing instrument to be his free act and deed, before me, this 17 day of 1997.

Witness signature

Witness name (please print)



**UNITED STATES DEPARTMENT OF COMMERCE** Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

JUNE 02, 1999

FOLEY, HOAG & ELIOT LLP MATTHEW P. VINCENT ONE POST OFFICE SOUARE BOSTON, MA 02109

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APV-31615

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 03/12/1999

REEL/FRAME: 9819/0987

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR''S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HO, STEFFAN N.

DOC DATE: 02/26/1999

ASSIGNEE:

BOARD OF TRUSTEES OF LELAND S. STANFORD JUNIOR UNIVERSITY STANFORD UNIVERSITY STANFORD, CALIFORNIA 94305

SERIAL NUMBER: 09157753

PATENT NUMBER:

FILING DATE: 09/16/1998

ISSUE DATE:

RECEIVED

STEVEN POST, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

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F.H. & E. LLP PATENT DEPT.

# 03-19-1999

	FORM <b>PTO-1595</b> (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)		ΞΤ	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office					
	Tab settings ∇ 100	988259	$\nabla$	$\nabla$ $\nabla$					
	To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.								
	Name of conveying party(ies):	Ì	ress of receiving party(ies)						
	Steffan N. Ho	Name: <u>Board of Tr</u> <u>Junior Unive</u>	- C						
	Additional name(s) of conveying party(ies) attached? □ Yes 図 No	Street Address: Sta	nford Univers	sity c sity 929					
	3. Nature of conveyance	City: Stanford							
	☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name	State: <u>California</u>	ZIP:	94305					
	Other	Additional name(s) & addre	ess(es) attached?	DYes ⊠No					
	Execution Date: 2/26/99		July attached f	<b>₩</b> 100 ₩ 140					
	Application number(s) or patent number(s):								
	A. Patent Application No.(s): 09/157,753  Additional numbers	B. Patent No.(s):							
	5. Name and address of party to whom correspond			ns and natents					
	ence concerning document should be mailed:	involved: 1	er of applications and patents						
	Name: Matthew P. Vincent, Ph.D.	7. Total fee (37	CFR 3.41)	<u>\$40.00</u>					
	Telephone: (617) 832-1000  Internal Address: Foley, Hoag & Eliot LLP	☑ Enclosed □ Authorized to be charged to deposit account							
	Street Address: One Post Office Square	8. Deposit acco	t account number: <u>06-1448</u>						
	City: Boston State: MA ZIP: 02109	y of this page if pay	ring by deposit account						
	9. Statement and signature: To the best of my knowledge and belief, the foregoing information is true a and any attached copy is a true copy of the original document.								
	Isabelle M. Clauss, Ph.D.  Name of Person Signing Signature	J Clan		3/12/99 Date					
03/18/1999		ver sheet, attachments,	and document:						
01 FC:581	40.00 OP								

Docket No.: APV 316.15

#### ASSIGNMENT

I, Steffan N. Ho of San Diego, California, in consideration of one dollar and other valuable consideration paid to me by the Board of Trustees of the Leland Stanford Junior University, a corporation of the state of California, having its principal place of business at Stanford University, Stanford, California 94305, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

# Board of Trustees of the Leland S. Stanford Junior University

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And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such letters patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

Witness signature

Witness name (please print)